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Number Harry and Marie Marie And

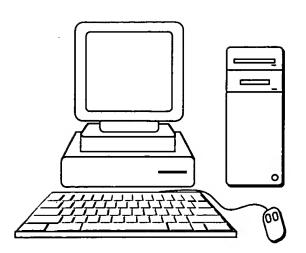


FIG. 1b



FIG. 1c

50 - INPUT -(FROM USER OR DEVICE) CAMERA ORIENTATION DATA-FILM FORMAT--POSITION (TRANSLATION XYZ) -APERTURE (FILM GATE) -ASPECT RATIO -TILT, PAN, ROLL (ROTATION XYZ) -DESIRED CIRCLE OF CONFUSION INSERT REFERENCE OBJECTS-LENS ATTRIBUTES--CLIPS -FOCAL LENGTH -CHARTS -FOCUS SETTING -VISUAL AIDS -F-STOP (IRIS) -"INFINITY" SETTING CUT-OFF <u>55</u> - DIGITAL CAMERA CALCULATIONS -TRUE FOCAL LENGTH -TRUE FIELD OF VIEW -HYPERFOCAL DISTANCE -HYPERFOCAL FOCUS -DEPTH OF FIELD -NEAR FOCUS -FAR FOCUS CORRECT CAMERA VIEW PARAMETERS CORRECT PLACEMENT OF REFERENCE OBJECTS CORRECT PLACEMENT OF LENS ATTRIBUTE MARKERS

- OUTPUT - MONITOR DISPLAY/DEVICE

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FIG. 2

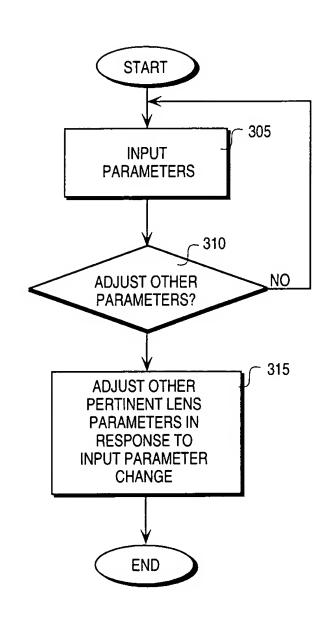
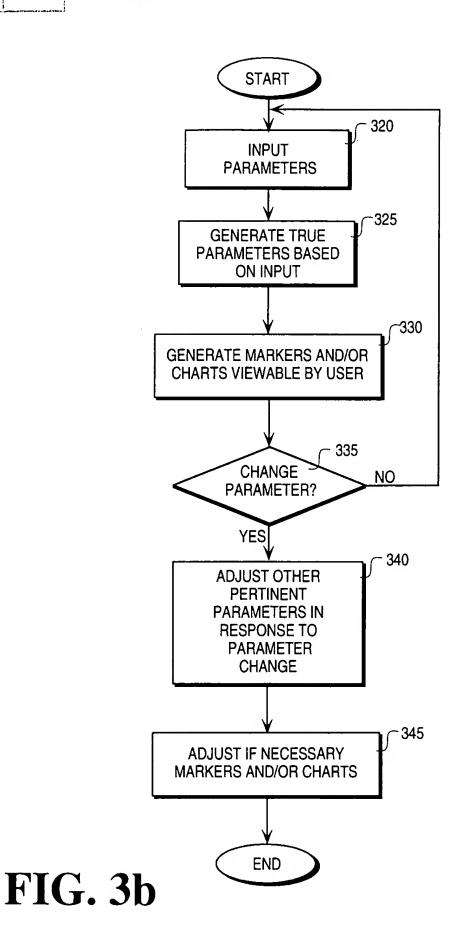


FIG. 3a





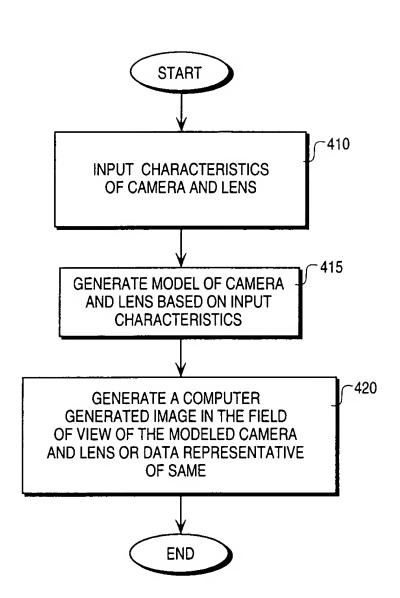


FIG. 4a

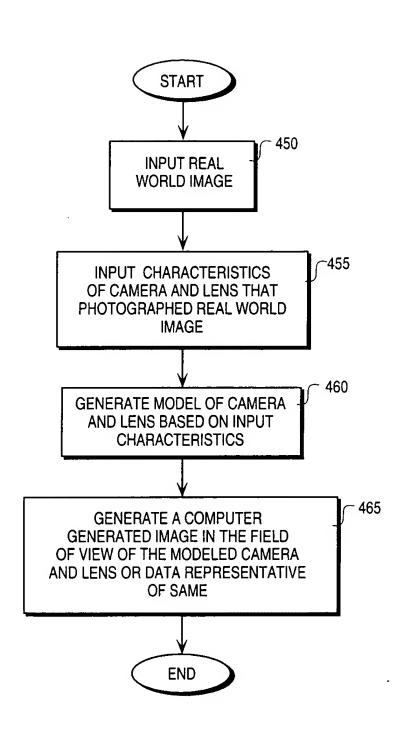


FIG. 4b

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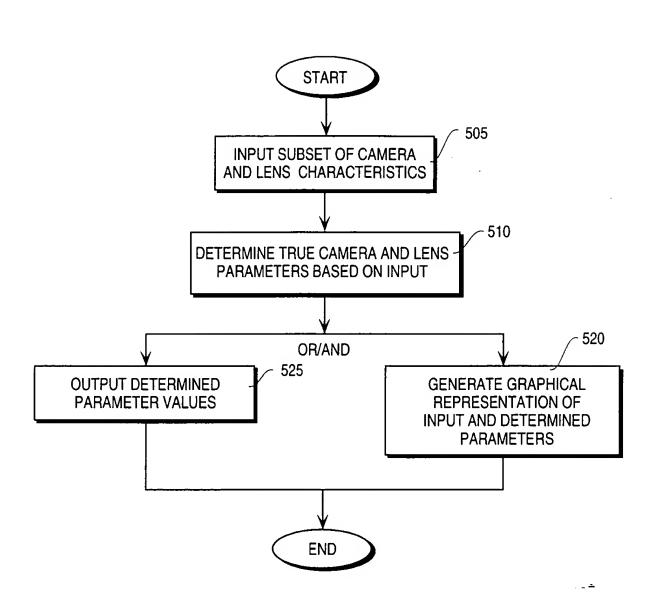


FIG. 5

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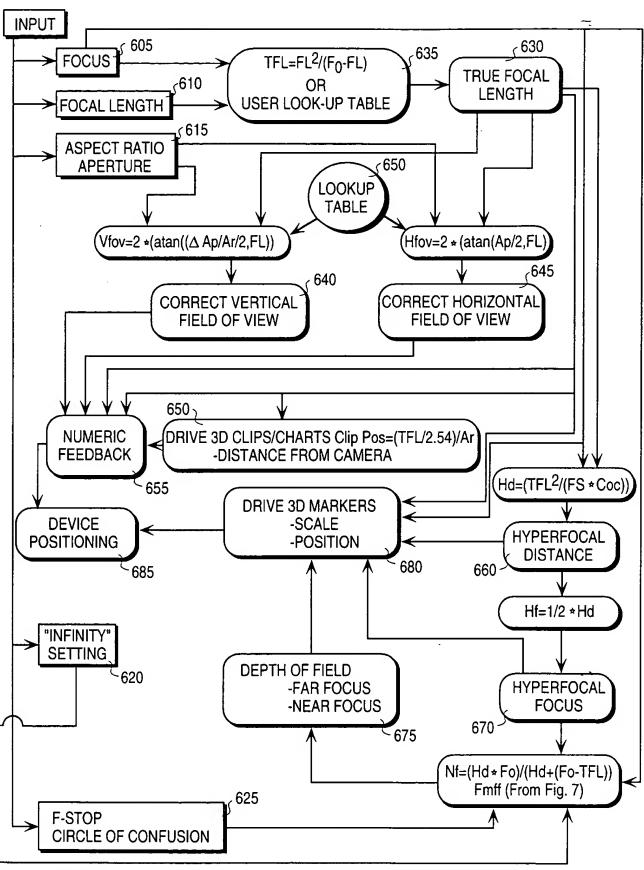


FIG. 6a

Variable	<u> </u>	Name	Standard Units	Example Value
FL	=	Focal Length	millimeters	50 mm
TFL	=	True Focal Length	millimeters	50 mm
Ap	=	Aperture	thousanths of inch	0.980"
Fs	=	F-Stop	(log values)	f5.6
Coc	=	Circle of Confusion	thousanths of inch	0.001"
Fo	=	Focus	Feet	10'
Vfov	=	Vertical Field of View	degrees	36
Hfov	=	Horizontal Field of View	degrees	52
Hd	=	Hyperfocal Distance	feet	50'
Hf	=	Hyperfocal Focus	feet	25'
Ar	=	Aspect Ratio	(ratio)	2.35
Ff	=	Far Focus Value	Feet	100'
FinFf	=	Final Calculated Far Focus	Feet	100'
Inf	=	"Infinity" setting cut-off,	Feet	100'
Nf	=	Near Focus Value	Feet	3'
Clip Po	os =	Viewfinder Clips Position	Feet	0.7'

FIG. 6b

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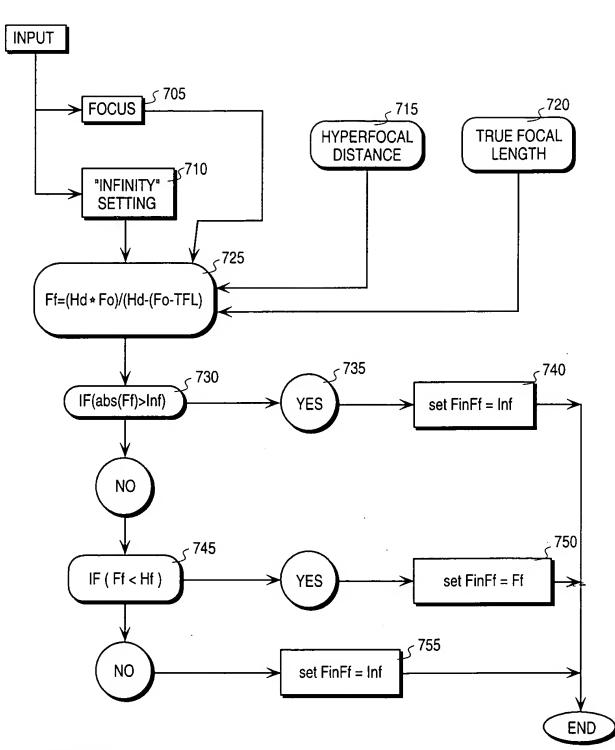


FIG. 7

824 , 825 HYPERFOCAL DISTANCE FAR FOCUS MARKER 820 ر 814 HYPERFOCAL FOCUS 816 ×810 NEAR FOCUS MARKER 812 811 9087 C804 CENS CAMERA BODY 808 802~ CLIP MARKER

FIG. Sa

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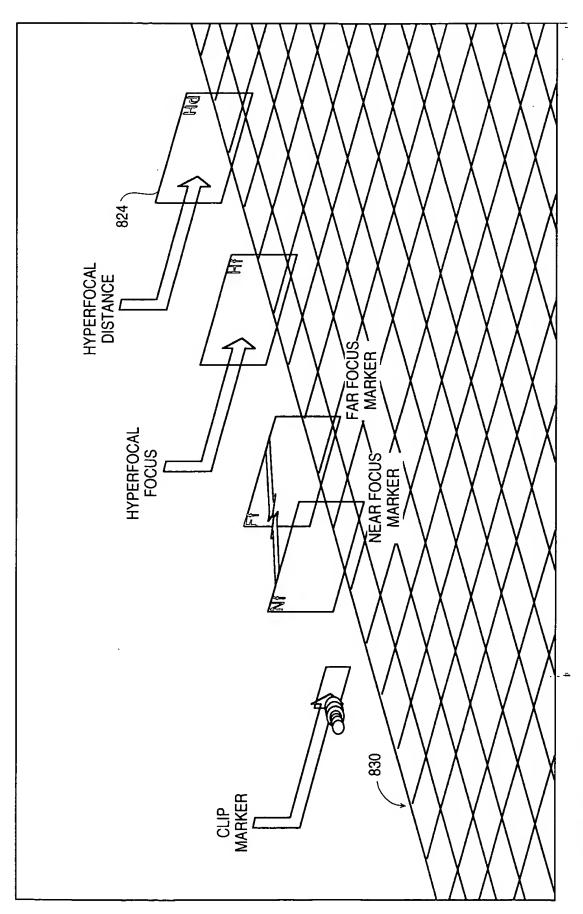
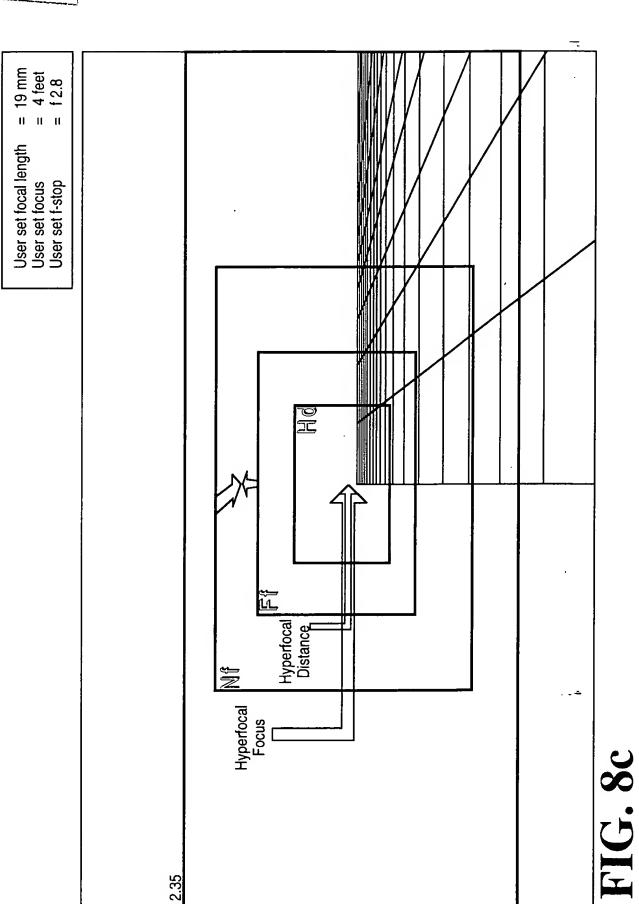


FIG. 8P



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Calculated Near Focus Distance = 3.2545 feet Calculated Far Focus Distance = 5.1886 feet Reference Marker/chart Position = 0.5201 feet Calculated Hyperfocus Distance = 17.847 feet Calculated Hyperfocus Focus = 8.5923 feet U **₫** <u>a</u> ത് (C) ख्य <u></u> FOCM $= 19.3008 \, \text{mm}$ = 19 mm = 4 feet = f 2.8 a B 到 User set Focal Length Focal Length User set Focus User Set f-stop Calculated True (I) F (Z 8.5923 17.847 FIG. &

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Calculated Near Focus Distance = 3.2545 feet Calculated Far Focus Distance = 5.1886 feet Reference Marker/chart Position = 0.5201 feet Calculated Hyperfocus Distance = 17.1847 feet Calculated Hyperfocus Focus = 8.5923 feet $= 19.3008 \, \text{mm}$ = 4 feet = f 2.8 $= 19 \, \text{mm}$ User set Focal Length =
User set Focus =
User Set f-stop = Focal Length Calculated True 901

HYPERFOCAL DISTANCE FAR FOCUS NEAR FOCUS MARKER HYPERFOCAL **FOCUS** MARKER 945 > 940 920 MARKER CLIP

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User set focal length = 19 mm User set focus = 4 feet User set f-stop = 12.8

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User set focus = 4 feet
User set f-stop = f 2.8

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FIG. 9d

O.G. FIG. , ADEROVED CLASS SUBCLASS 'GRAFTSMAE

The train that the same than the train

Calculated Near Focus Distance = 2.7432 feet Calculated Far Focus Distance = 7.3823 feet Reference Marker/chart Position = 0.5201 feet Calculated Hyperfocus Distance = 8.5923 feet Calculated Hyperfocus Focus = 4.2962 feet $= 19.3008 \, \text{mm}$ = 4 feet = f 5.6 $= 19 \, \text{mm}$ User set Focal Length Focal Length Calculated True User set Focus User Set f-stop

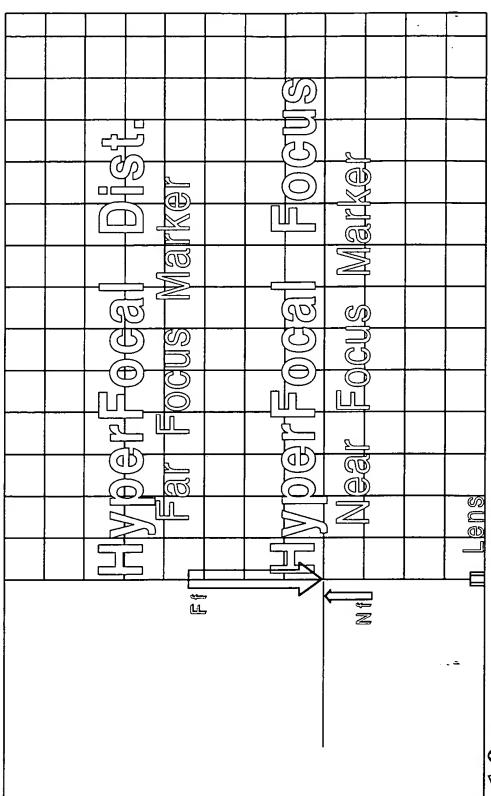
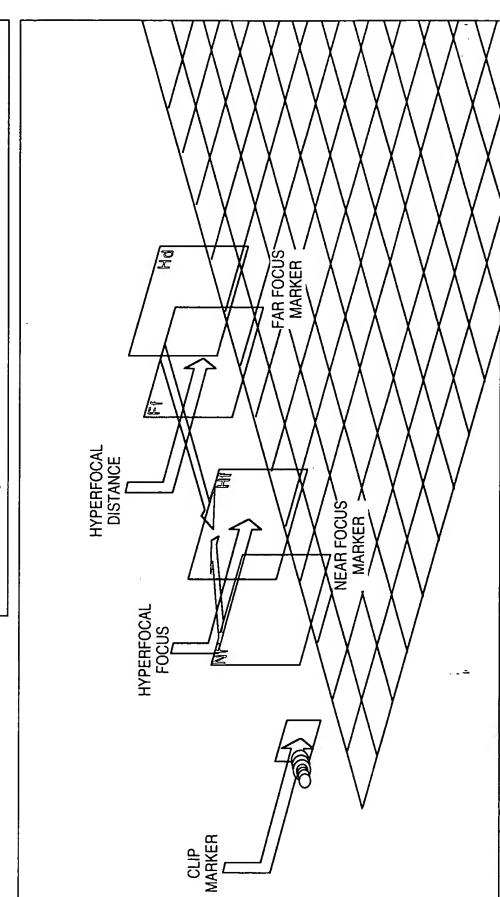


FIG. 10a

ATTHOVED : Q.G. FIG.

BY CLASS SUBCLASS
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e = 8.5923 feet = 4.2962 feet Calculated Near Focus Distance = 2.7432 feet Calculated Far Focus Distance = 7.3823 feet Reference Marker/chart Position = 0.5201 feet Calculated Hyperfocus Distance = 8.5923 Calculated Hyperfocus Focus = 4.2962 $= 19.3008 \, \text{mm}$ = 4 feet = f 5.6 $= 19 \, \text{mm}$ User set Focal Length Focal Length User set Focus User Set f-stop Calculated True



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User set focal length User set focus User set f-stop

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Hyperfocal Distance

Hyperfocal Focus

2.35

FIG. 10c

PROVED O.G. FIG. SUBULASE CLASS 87 aftskah i

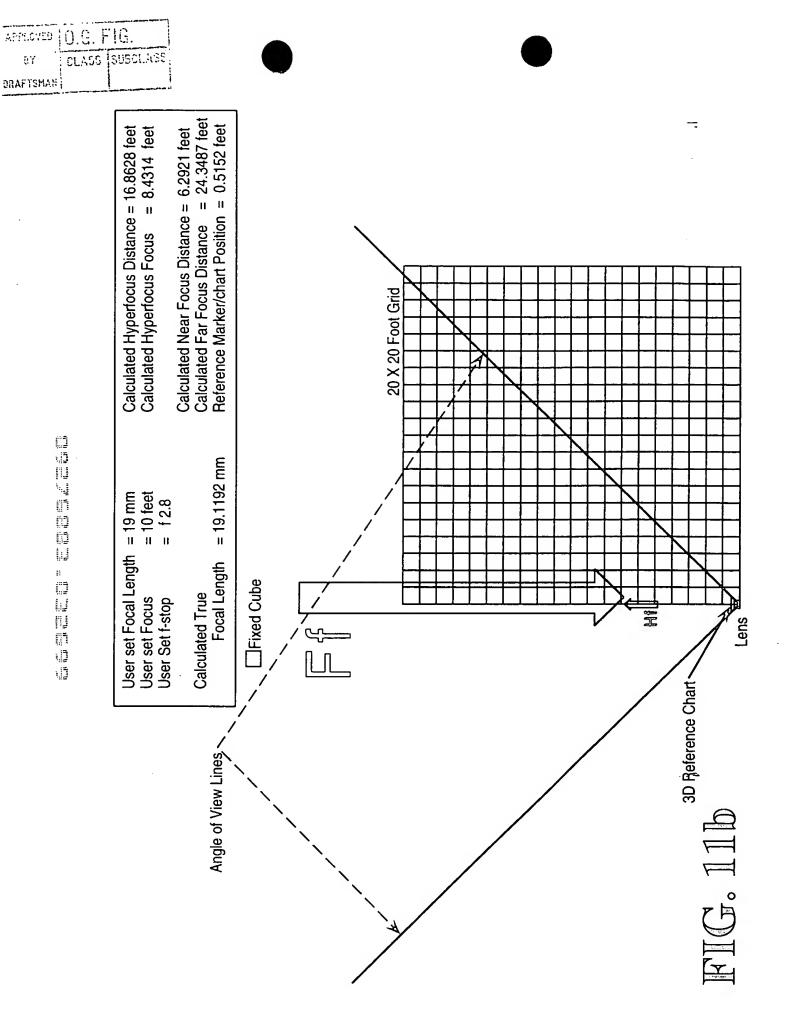
> Calculated Hyperfocus Distance = 16.8628 feet Calculated Hyperfocus Focus = 8.4314 feet $= 19.1192 \, \text{mm}$ User set Focal Length = 19 mm User set Focus = 10 feet User Set f-stop = 12.8 Focal Length Calculated True

Calculated Near Focus Distance = 6.2921 feet Calculated Far Focus Distance = 24.3487 feet Reference Marker/chart Position = 0.5152 feet

FAR FOCUS **FAR FOCUS** HYPERFOCAL DISTANCE NEAR FOCUS: MARKER HYPERFOCAL FOCUS CLIP MARKER

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D.G. FIG.

BY CLASS SUBCLASS

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User set focal length = 19 mm
User set focus = 10 feet
User set f-stop = f 2.8

Hyperfocal M ∯ Distance Hyperfocal Focus 2,35

FIG. 11c

ORAFISMAN O.G. FIG.

= 19 mm = 10 feet = f 2.8 User set focal length User set focus User set f-stop . =

FIG. 11d

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APPLOYED O.G. FIG.

EY CLASS SUBCLASS
RAFTSMAR

10 rens C Reference Chart Near Focus Marker → Far Focus Marker FIG. 12a

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AUFLOY, D.G. FIG.
CY CLASS SUSCLASS DRAFTSMAN

Calculated Far Focus Distance = 10.1998 feet Reference Marker/chart Position = 2.7861 feet Calculated Hyperfocus Distance = 493.135 feet = 246.567 feet Calculated Near Focus Distance = 9.8079 feet Calculated Hyperfocus Focus = 103.3921 mm = 10 feet = f 2.8 $= 100 \, \text{mm}$ User set Focal Length Focal Length User set Focus User Set f-stop Calculated True

<u>0</u> ٩ 20 X 20 Foot Grid ☐Fixed Cube Lens 1255 Far Focus Marker Near Focus Marker 30 Reference Chart Angle of View Lines ≺

FIG. 12b

User set focal length = 100 mm
User set focus = 10 feet
User set f-stop = f 2.8

FIG. 12c J

APPROVED O.G. FIG. **ORAFTSMAN**

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Hand that man than than than

Calculated Near Focus Distance = 19.2078 feet Calculated Far Focus Distance = 20.8604 feet Reference Marker/chart Position = 2.7397 feet Calculated Hyperfocus Distance = 476.824 feet Calculated Hyperfocus Focus = 238.412 feet = 101.6678 mm User set Focal Length = 100 mm User set Focus = 20 feet User Set f-stop = 12.8 Focal Length Calculated True User Set f-stop

Angle of View Lines ~

20 X 20 Foot Grid ☐Fixed Cube F Į Lens 3p Reference Chart -

FIG. 13a

AFFECTED U.G. FIG.

EY CLASS SUBSLASS

STAFTSMAN

User set focal length = 100 mm User set focus = 20 feet User set f-stop = f 2.8

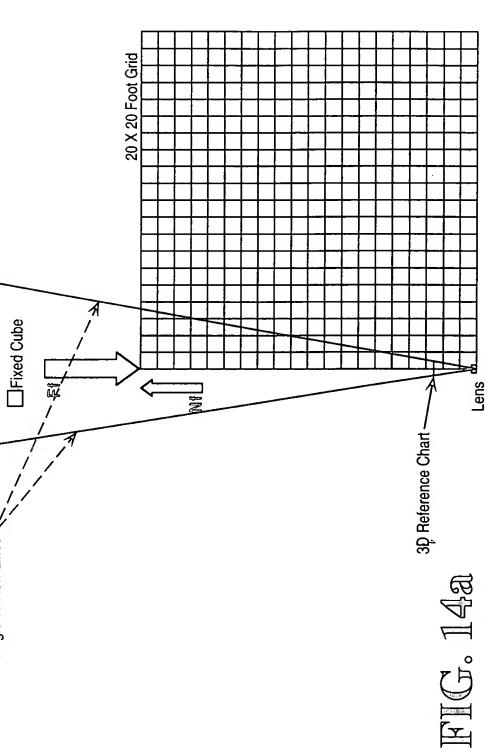
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FIG. 1310

AFFERDATE | U.G. FIG. SUBCLASS GRAFTSMAN

> Calculated Near Focus Distance = 16.1854 feet Calculated Far Focus Distance = 26.1672 feet Reference Marker/chart Position = 2.7397 feet Calculated Hyperfocus Distance = 83.4442 feet Calculated Hyperfocus Focus = 41.7221 feet = 101.6678 mm = 100 mm = 20 feet = f 16 User set Focal Length Focal Length User set Focus User Set f-stop Calculated True

Angle of View Lines ~



These tasks that tasks then there that that

EY+ CLASS SUBCLASS

= 100 mm = 20 feet = f 16

User set focal length User set focus User set f-stop

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